

Application No. 09/343,805
Amendment & Summary of Interview of July 1, 2003

In The Claims:

SUB E
19. (Currently Amended) A computer-readable medium having stored thereon an intermediate representation instruction data structure representing a platform-neutral instruction translated from a platform-dependent instruction in a heterogeneous program, the intermediate representation instruction accessible by a computer for manipulation and transformation to a platform-specific instruction executable by the computer, the data structure comprising:

an opcode field containing data representing an opcode for the intermediate representation instruction;

a destination operand field containing data representing a destination operand for the opcode identified by the opcode field;

a first source operand field containing data representing a first source operand for the opcode identified by the opcode field;

a second source operand field containing data representing a second source operand for the opcode identified by the opcode field;

a size field containing data representing a length for the instruction identified by a combination of the opcode field, the destination operand field, the first source operand field and the second source operand field; [and]

a mode field containing data representing an addressing mode for the instruction identified by the combination.

SUB E
25. (Currently Amended) A computer-readable medium having stored thereon a hierarchical data structure for an intermediate representation of a heterogeneous program, intermediate representation instructions of the heterogeneous program representing a platform-neutral instruction translated from a platform-dependent instruction in the heterogeneous program, the intermediate representation instruction accessible by a computer for manipulation

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and transformation to a platform-specific instruction executable by the computer, the hierarchical data structure comprising:

2
a component data structure for a component in the heterogeneous program, the component data structure comprising a procedure field containing data representing a pointer to a procedure data structure for a procedure in the component;

the procedure data structure comprising a first block field containing data representing a pointer to a code block data structure for a code block in the procedure identified by the procedure field; and

an instruction data structure comprising an instruction field containing data representing a pointer to a instruction data structure for an instruction in the code block identified by the first block field.